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	Application No.	Applicant(s)		
Notice of Allowability	10/614,236	KON ET AL.		
	Examiner	Art Unit		
	Sin J. Lee	1752		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. This communication is responsive to <u>06-01-2004</u> .				
2. The allowed claim(s) is/are 3 and 5-11.				
3. The drawings filed on are accepted by the Examiner.				
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority un a)  All b)  Some* c)  None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Certified copies not received:</li> </ol> </li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> </ul>	been received.  been received in Application No cuments have been received in this n	ational stage applicati	· 	
<ul> <li>5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give:</li> <li>6. CORRECTED DRAWINGS ( as "replacement sheets") must</li> </ul>	s reason(s) why the oath or declarati	S AMENDMENT or NO on is deficient.	OTICE OF	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached				
1) hereto or 2) to Paper No./Mail Date	one ratent blawing Neview (F10-9	46) allached		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	34(c)) should be written on the drawing e header according to 37 CFR 1.121(d)	gs in the front (not the b	pack) of	
<ol> <li>DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F</li> </ol>	it of BIOLOGICAL MATERIAL m OR THE DEPOSIT OF BIOLOGICAI	ust be submitted. No L MATERIAL.	ote the	
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Inforṃal Pat 6. ⊠ Interview Summary (F		.152)	
<ol> <li>Information Disclosure Statementş (PTO-1449 or PTO/SB/08 Paper No./Mail Date</li> </ol>	Paper No./Mail Date	Paper No./Mail Date <u>10132004</u> . 7. ⊠ Examiner's Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8.  Examiner's Statement 9.  Other	WELLY	7.1	
		ON PATEN EXAMIN	NER O HAU KEN	

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## **EXAMINER'S AMENDMENT**

- 1. Applicants canceled claims 1, 2, and 4.
- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 3. Authorization for this examiner's amendment was given in a telephone interview with Mr. Kenneth H. Salen (attorney for applicants) on October 13, 2004.
- 4. The application has been amended as follows:

Cancel Claims 12-23 (these claims are non-elected claims).

5. The following is an examiner's statement of reasons for allowance: As previously indicated, none of the prior arts cited on the record teaches or suggests present activator that generates an acid or a radical as a result of being decomposed by heating at the temperature equal to or below the pre-baking temperature (i.e., the baking temperature at which a resist film is formed from a coated film of the resist material): In Kong et al, the pre-baking temperature is 110°C and Kong's thermal acid generator (present activator) geneates acid at the hard-bake temperature (i.e., the heating after the development) of 175°C. Falk states that after his top resist layer is coated on a substrate (onto which the bottom resist layer is applied), the solvent is vaporized in the temperature between 60-160°C, and Falk explicitly states that this temperature (pre-

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baking temperature) is selected so that during this first drying, the thermoacid generator is *not* decomposed. Pawloski's thermal radical generators generate radicals upon a hardbake, and it is known in the art that the hardbake temperature is typically higher than pre-baking temperature (as evidenced by Kong et al). Kon's composition comprises two photoacid generators both of which generate acid at the exposure step not at the prebaking step. Therefore, none of the cited prior arts teaches or suggests present activator that generates an acid or a radical as a result of being decomposed by heating at the temperature equal to or below the pre-baking temperature.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sin J. Lee whose telephone number is 571-272-1333. The examiner can normally be reached on Monday-Friday from 9:00 am EST to 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S.J.L.

S. Lee

October 13, 2004

Sin J. Lee Sin J. Lee

Patent Exammer

Technology Center

CONTRACTOR

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